

09982801\_CLS  
Most Frequently Occurring Classifications of Patents Returned  
From A Search of 09982801 on July 11, 2003

Original Classifications

4 320/106  
2 307/130  
2 323/222  
2 324/433  
2 455/573

Cross-Reference Classifications

3 307/66  
3 320/DIG 21  
3 340/636.15  
2 320/132  
2 320/136  
2 320/152  
2 323/225  
2 323/271  
2 323/284  
2 324/427  
2 324/435  
2 378/102  
2 455/423  
2 455/572  
2 455/9

Combined Classifications

4 307/66  
4 320/106  
3 320/132  
3 320/DIG 21  
3 323/222  
3 324/427  
3 324/433  
3 340/636.15  
3 455/572  
3 455/573  
2 307/10.1  
2 307/130  
2 320/136  
2 320/150  
2 320/152  
2 323/225  
2 323/271  
2 323/284  
2 324/435

341/  
702/  
455/

09982801\_CLS

2 340/636.13  
2 340/870.02  
2 378/102  
2 455/423  
2 455/9

09982801\_CLSTITLES

Titles of Most Frequently Occurring Classifications of Patents Returned

From A Search of 09982801 on July 11, 2003

- 4 307/66 (1 OR, 3 XR)  
 Class 307 : ELECTRICAL TRANSMISSION OR INTERCONNECTION SYSTEMS  
 307/43 PLURAL SUPPLY CIRCUITS OR SOURCES  
 307/64 .Substitute or emergency source  
 307/66 ..Storage battery or accumulator
  
- 4 320/106 (4 OR, 0 XR)  
 Class 320 : ELECTRICITY: BATTERY OR CAPACITOR CHARGING OR DISCHARGING  
 320/106 MEANS TO IDENTIFY CELL OR BATTERY TYPE
  
- 3 320/132 (1 OR, 2 XR)  
 Class 320 : ELECTRICITY: BATTERY OR CAPACITOR CHARGING OR DISCHARGING  
 320/127 BATTERY OR CELL DISCHARGING  
 320/128 .With charging  
 320/130 ..Cycling (e.g., discharge/charge cycle, etc.)  
 320/132 ...With state-of-charge detection
  
- 3 320/DIG 21 (0 OR, 3 XR)  
 Class 320 : ELECTRICITY: BATTERY OR CAPACITOR CHARGING OR DISCHARGING  
 320/DIG 18 INDICATOR OR DISPLAY  
 320/DIG 21 .State of charge of battery
  
- 3 323/222 (2 OR, 1 XR)  
 Class 323 : ELECTRICITY: POWER SUPPLY OR REGULATION SYSTEMS  
 323/220 IN SHUNT WITH SOURCE OR LOAD  
 323/222 .Using choke and switch across source
  
- 3 324/427 (1 OR, 2 XR)  
 Class 324 : ELECTRICITY: MEASURING AND TESTING  
 324/425 ELECTROLYTE PROPERTIES  
 324/426 .Using a battery testing device  
 324/427 ..To determine ampere-hour charge capacity
  
- 3 324/433 (2 OR, 1 XR)  
 Class 324 : ELECTRICITY: MEASURING AND TESTING  
 324/425 ELECTROLYTE PROPERTIES  
 324/426 .Using a battery testing device

## 09982801\_CLSTITLES

324/433      ..To compare battery voltage with a reference voltage

3 340/636.15      (0 OR, 3 XR)

Class 340 : COMMUNICATIONS: ELECTRICAL  
 340/500      CONDITION RESPONSIVE INDICATING SYSTEM  
 340/540      .Specific condition  
 340/635      ..Condition of electrical apparatus  
 340/636.1      ...Battery  
 340/636.15      ....By voltage

3 455/572      (1 OR, 2 XR)

Class 455 : TELECOMMUNICATIONS  
 455/73      TRANSMITTER AND RECEIVER AT SAME STATION (E.G.

TRANSCEIVER)

455/550.1      .Radiotelephone equipment detail  
 455/572      ..Power supply

3 455/573      (2 OR, 1 XR)

Class 455 : TELECOMMUNICATIONS  
 455/73      TRANSMITTER AND RECEIVER AT SAME STATION (E.G.

TRANSCEIVER)

455/550.1      .Radiotelephone equipment detail  
 455/572      ..Power supply  
 455/573      ...Battery charging

2 307/10.1      (1 OR, 1 XR)

Class 307 : ELECTRICAL TRANSMISSION OR INTERCONNECTION  
 SYSTEMS

307/9.1      VEHICLE MOUNTED SYSTEMS  
 307/10.1      .Automobile

2 307/130      (2 OR, 0 XR)

Class 307 : ELECTRICAL TRANSMISSION OR INTERCONNECTION  
 SYSTEMS

307/112      SWITCHING SYSTEMS  
 307/116      .Condition responsive  
 307/125      ..Electrical  
 307/130      ...Voltage

2 320/136      (0 OR, 2 XR)

Class 320 : ELECTRICITY: BATTERY OR CAPACITOR CHARGING  
 OR DISCHARGING

320/127      BATTERY OR CELL DISCHARGING  
 320/135      .Regulated discharging  
 320/136      ..With battery or cell condition monitoring

## 09982801\_CLSTITLES

(e.g., for protection from overcharging, heating, etc.)

- 2 320/150 (1 OR, 1 XR)  
     Class 320 : ELECTRICITY: BATTERY OR CAPACITOR CHARGING  
                     OR DISCHARGING  
     320/137 BATTERY OR CELL CHARGING  
     320/150 .With thermal condition detection
- 2 320/152 (0 OR, 2 XR)  
     Class 320 : ELECTRICITY: BATTERY OR CAPACITOR CHARGING  
                     OR DISCHARGING  
     320/137 BATTERY OR CELL CHARGING  
     320/150 .With thermal condition detection  
     320/152 ..Detection of current or voltage amplitude
- 2 323/225 (0 OR, 2 XR)  
     Class 323 : ELECTRICITY: POWER SUPPLY OR REGULATION  
                     SYSTEMS  
     323/220 IN SHUNT WITH SOURCE OR LOAD  
     323/223 .Using a three or more terminal semiconductive  
                     device  
     323/225 ..Plural devices
- 2 323/271 (0 OR, 2 XR)  
     Class 323 : ELECTRICITY: POWER SUPPLY OR REGULATION  
                     SYSTEMS  
     323/234 OUTPUT LEVEL RESPONSIVE  
     323/265 .Using a three or more terminal semiconductive  
                     device as the final control device  
     323/268 ..Including plural final control devices  
     323/271 ...Switched (e.g., on-off control)
- 2 323/284 (0 OR, 2 XR)  
     Class 323 : ELECTRICITY: POWER SUPPLY OR REGULATION  
                     SYSTEMS  
     323/234 OUTPUT LEVEL RESPONSIVE  
     323/265 .Using a three or more terminal semiconductive  
                     device as the final control device  
     323/282 ..Switched (e.g., switching regulators)  
     323/284 ...With threshold detection
- 2 324/435 (0 OR, 2 XR)  
     Class 324 : ELECTRICITY: MEASURING AND TESTING  
                     ELECTROLYTE PROPERTIES  
     324/425 .Using a battery testing device  
     324/435 ..Having particular meter scale or indicator

09982801\_CLSTITLES

- 2 340/636.13 (1 OR, 1 XR)
  - Class 340 : COMMUNICATIONS: ELECTRICAL
  - 340/500 CONDITION RESPONSIVE INDICATING SYSTEM
  - 340/540 .Specific condition
  - 340/635 ..Condition of electrical apparatus
  - 340/636.1 ...Battery
  - 340/636.13 ....By current
  
- 2 340/870.02 (1 OR, 1 XR)
  - Class 340 : COMMUNICATIONS: ELECTRICAL
  - 340/870.01 CONTINUOUSLY VARIABLE INDICATING (E.G.,  
TELEMETERING)
  - 340/870.02 .With meter reading
  
- 2 378/102 (0 OR, 2 XR)
  - Class 378 : X-RAY OR GAMMA RAY SYSTEMS OR DEVICES
  - 378/91 ELECTRONIC CIRCUIT
  - 378/101 .X-ray source power supply
  - 378/102 ..Mobile or portable
  
- 2 455/423 (0 OR, 2 XR)
  - Class 455 : TELECOMMUNICATIONS
  - 455/403 RADIOTELEPHONE SYSTEM
  - 455/422.1 .Zoned or cellular telephone system
  - 455/423 ..Diagnostic testing, malfunction indication,  
or electrical condition measurement
  
- 2 455/9 (0 OR, 2 XR)
  - Class 455 : TELECOMMUNICATIONS
  - 455/7 CARRIER WAVE REPEATER OR RELAY SYSTEM (I.E.,  
RETRANSMISSION OF SAME INFORMATION)
  - 455/9 .Monitoring

09982801\_QUAL

6049144 99  
5525890 98  
5869801 98  
4843640 98  
5266880 98  
5269458 98  
5272386 98  
5442346 98  
5530362 98  
5563452 98  
5610525 98  
5638421 98  
5698965 98  
5717314 98  
5790961 98  
5835366 98  
6046574 98  
6049141 98  
6134457 98  
6172478 98  
6229287 98  
6314307 98  
4280161 88  
4560937 88  
5519388 88  
5629875 88  
5659303 88  
4354182 87  
4521645 87  
4881024 87  
4904996 87  
5666006 87  
5675371 87  
5684387 87  
5737168 87  
5841357 87  
5861729 87  
5867798 87  
6072984 87  
6157175 87  
6215286 87  
6215286 87  
5554954 86  
5570002 86  
5853908 85  
5889384 85  
6025694 85  
4314194 85

09982801\_QUAL

4797907 85  
4851703 85